## FIRST CLASS ENGINEERING AND TECHNICAL SUPPORT

AVE has earned a reputation as 'The Professional's Choice for CCTV' by delivering high value systems at competitive prices. We enable our customers to grow their businesses and to offer generous discounting, with the assurance of high quality products.

## NEXT DAY DELIVERY

We offer you a comprehensive range of cutting-edge CCTV products for solo sites, up to major multiple installations, to achieve full system integration, working closely with other leading manufacturers on your behalf, to deliver bespoke solutions

## ORDERING AND DISPATCH

Ordering couldn't be easier - by phone, fax, e-mail or via the internet - and our customer service team are always available should you need technical or general assistance. We aim to dispatch your order within a 24 hour period wherever possible.

# WHY CHOOSE AVE?

American Video Equipment (AVE) is a leading supplier of CCTV systems for security applications, protecting people and property in the public, commercial and private sectors for over 20 years.

## TABLE OF CONTENTS


- FRAUD DETECTION
  - EPOS FRAUD DETECTION Pg 3 - 8
  - ATM FRAUD DETECTION Pg 9
  - EPOS DVR / CASHTRACK Pg 10
- DIGITAL RECORDERS
  - ONE CHANNEL DVR Pg 11 - 12
  - FOUR CHANNEL DVRS Pg 13 - 14
  - EIGHT/SIXTEEN CHANNEL DVRS Pg 15 - 16
  - VIDEO TRANSMISSION - OMNIVIEW Pg 17
  - ACCESSORIES Pg 18
- CAMERAS
  - DOME CAMERAS Pg 19 - 20
  - STATIC CAMERAS Pg 21 - 22
  - FULL FUNCTION CAMERAS Pg 23 - 25
  - COVERT CAMERAS & ACCESSORIES Pg 26
  - PTZ / FULL FUNCTION CAMERAS Pg 27-28
- MONITORS Pg 29 - 30
- TWISTED PAIR SOLUTIONS Pg 31 - 32
- MOTION DETECTION Pg 33 - 34
- ID CARD CHECKER Pg 35

Endeavour House
Coopers End Road
Stansted, Essex
CM24 1SJ ,UK

T: 0845 600 9323
F; 0845 600 9363
sales@ave-uk.com
www.ave-uk.com

# VSI-PROMAX

- LARGER MEMORY SPACE
- ALL AVE INTERFACES IN ONE UNIT
- FULL REMOTE PC OR DVR PROGRAMMING
- NEW VIDEO PROCESSING CIRCUITRY

**POS / Cash Register Interfacing**

An additional serial port has been added to allow the VSI-PROMax to have bi-directional communication with any till emulating common printers, pole displays or customer displays. This additional port can then send the data to the Hydra / Regcom network or send RS-232 or RS-485 directly to a serial port on the DVR.

Optically isolated RS-232 input selectable has been added to break the ground loop between the POS/ Cash Register and video system. This completely seperates the POS / Cash register system from the video system eliminating till or communication problemsor video noise.

**Networking**

With the built in Hydra, Regcom, Networker or Vnetworker functions, the VSI-Pro Max can be a complete POS / Cash Register interface plus be configured as a Master (Hydra) or Slave (Regcom) device for up to 16 tills. Therefore eliminating the use of the stand alone Hydra, Regcom, Networker or Vnetworker units. Just loop the RS-485 network from one VSI-Pro Max to the next. All VSI-Pro Max will then be configured as Regcom and the last in the loop will be configured as a Hydra and connect to the DVR. Diagnostic LEDs indicate the network active and data from the till is being received to confirm installation wiring.

The VSI-Pro Max is programmable for many 3rd party DVR protocol for receiving data from POS / Cash Registers with all the current supported Hydra drivers. Programmability for backward compatibility for all AVE network configurations for Hydra/Regcom, Networker and Vnetworker.

**Video**

Video AGC circuitry has been added to compensate for the new low light WDR cameras and UTP twisted pair adapters that reduce the video level below the standard 1V P-P. Therefore the VSI-Pro Max will deliver a constant video level to the DVR in all conditions maintaining stable text display. Video Surge Suppression has been added along with an isolated earth plug to prevent lightning surges as well.

**Processor**

With the new 40 Mhz processing speed all the above functions are possible. With the increased 128K SRAM high speed buffering and processing is possible with large data packet processing tills. With the increased program memory of 128K, all AVE POS, Cash Register, printer, pole displays, customer displays, Scales, Money Counters, radars, GPS and all drivers developed by AVE are in one convenient unit.

**Software**

The VSI-Pro Max supports PC programming and firmware updating. It is also compatible with the Vnetworker protocol so can be programmed and configured remotely via the AVE line of DVRs.

**Power**

The VSI-Pro Max as all VSIs uses standard unregulated 12VDC. Full surge suppression on this power line prevents interference of common power supplies from effecting the interface, till or video system.

**Mechanical**

The VSI-Pro Max is housed in an electroplated metal enclosure with powder coated paint for compliance with all CE / FCC standards.



To place an order call 0845 600 9323 or e-mail sales@ave-uk.com

# NEW EVOLUTION

## THE NEXT GENERATION IS HERE

THE VSI-PRO **MAX** IS THE LATEST EVOLUTION OF THE MARKET LEADING POS/CASH REGISTER INTERFACE FROM AVE.

**Now with larger memory space**
- can hold ALL the AVE Interfaces in one unit

**Full remote PC or DVR programming**
- for selection, setups & onsite firmware updating

**New video processing circuitry**
- allows use with new WDR cameras and low video of commonly used UTP adapters.

**Built in RS-232, RS-485, Passive and new Opto-Isolated selection**
- gives complete isolation from the POS/Cash Register from the video system.

**Internal 40 Mhz operation** - allows for combining the Networking functions of the Hydra, Regcom, Networker or Vnetworker within one convenient unit with looping RJ45s for a seemless solution for multiple till configuration.

T: 0845 600 9323 | F: 0845 600 9363 | E: sales@ave-uk.com

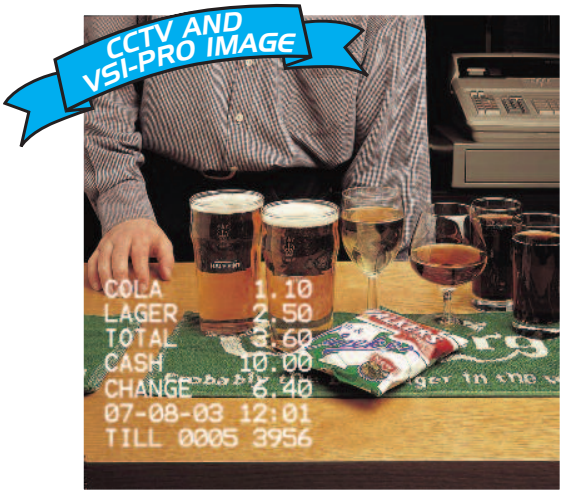
# EPOS FRAUD DETECTION

- REDUCE PILFERING FROM CASH REGISTERS
- REDUCE SUSPICIOUS TRANSACTIONS SUCH AS 'VOIDS' & 'NO SALES'
- IDENTIFY ROGUE MEMBERS OF STAFF

## THE VSI-PRO SAVES YOU MONEY BY KEEPING IT IN THE TILL!

*The picture below shows, without a doubt, that not all items passed over the counter were entered into the cash register.*

HOW WOULD YOU KNOW WITHOUT THE VSI-PRO




NO.1 CASH REGISTER INTERFACE IN THE WORLD!

The VSI-PRO is a Video to Serial Interface. It overlays serial data to a video signal, typically from a cash register, but can be used for many other devices such as weigh bridges, speed cameras, cash counting devices, etc.

The VSI-PRO translates data from transactions at the cash register and overlays this information as text onto the video images from the CCTV system. This information is permanently embedded onto the images, and therefore cannot be tampered with. The combination of cash register data and CCTV images makes it easy to identify suspicious transactions such as the one on the left.

A quick review of the footage shows that this kind of transaction is easily discovered. Without the VSI-PRO this transaction would have gone undetected as neither a review of the CCTV footage or the till receipts alone would anyone have identified this.

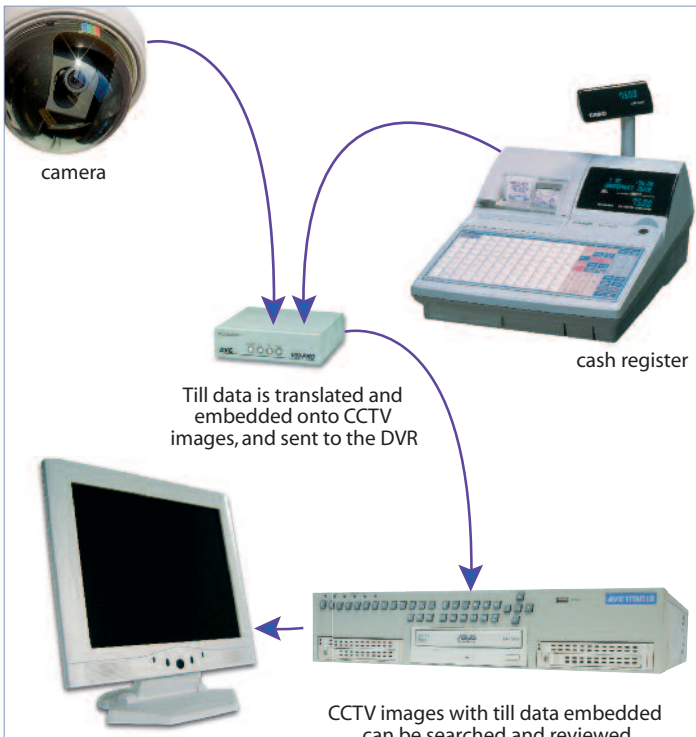
In addition the VSI-PRO not only captures this information, but allows the user to set up alarms on specific transactions, products, or members of staff. These are then fully searchable and depending on the set-up, can be reviewed at the touch of a button without viewing hours of surveillance.

PROVEN TO DRAMATICALLY REDUCE THEFT AT THE POINT OF SALE

## COMPATIBLE WITH OVER **400** CASH REGISTERS



To place an order call 0845 600 9323 or e-mail sales@ave-uk.com


camera
cash register
Till data is translated and embedded onto CCTV images, and sent to the DVR
CCTV images with till data embedded can be searched and reviewed

## HOW DOES IT WORK?

Video images from the CCTV system go into the VSI-PRO. The camera selected typically watches the general cash register area including the register, counter, employee and customer.

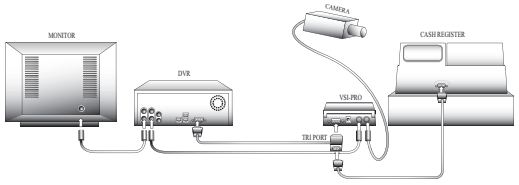
Transaction data from the cash register also goes into the VSI-PRO where it is filtered and translated into viewable 'receipt' type text.

The VSI-PRO then overlays this information onto the CCTV images and embeds it permanently so that it cannot be tampered with. These combined images and data are sent to the recorder for storage.

Images stored on the recorder can then be analysed using search criteria such as Staff Member, Alarms, Exceptions, Voids, or any other parameters set up by the user.

This is a basic system but multi-cash register systems can also be accommodated with the use of the AVE CashTrack DVR and AVE Networker which can handle numerous cash registers at the same time.

The VSI-PRO is compatible with over 400 different cash registers and Electronic Point of Sale devices, including all the top manufacturers.




## FEATURES

- Hardware data overlay (the data is added to the video image and cannot be removed)
- Built in support for over 400 different cash register and other devices
- Built in history of suspect transactions such as 'Voids', 'No sales', 'Returns', and 'Sweet-Hearting'.
- Built in programmable hardware alarms control of external devices
- Works with any recording device
- Real time Filtering and Export to external devices such as a DVR
- Networkable via AVE network
- Set-up done by simple on-screen menus
- Easy set up (60% of set ups are plug and play)
- Large dealer network
- Largest range of supported devices of any POS/cash register interface
- Alarms for suspect transactions
- Ongoing development for new devices
- Bespoke development for (registers/devices) or features not currently available.

# EPOS FRAUD DETECTION

- REDUCE PILFERING FROM CASH REGISTERS
- REDUCE SUSPICIOUS TRANSACTIONS SUCH AS 'VOIDS' & 'NO SALES'
- IDENTIFY ROGUE MEMBERS OF STAFF

| Manufacturer/Model | Geller ET6600 | Omron 4601 (RS) | Sharp ER-A750 | Wayne Nucleus |
|---|---|---|---|---|
| Advanced Data Systems | Geller ET6800 | Omron 4602 (RS) | Sharp UP3000/3300 | Wright Touch Model 3000 |
| Aloha Pos Software | Geller EX300 | Omron 4603 (RS) | Sharp UP3000/3300 | **MONEY COUNTERS** |
| Aloha Pos Software | Geller FX400 | Omron RS12 | Sharp UP600/700 | Delarue 2800 |
| Arcirus-Iridium | Geller MP2 | Omron RS3510 | Sharp UP600/700 | Cummins Jetsort |
| Casio 230 ER | Geller MP2-T | Omron RS-3550,8550 | Sharp UP600/700 | **SCALES** |
| Casio 240 CR | Geller MP3 | Omron RS5555,5550,5560 | Sharp UP600/700 | AVERY WB1 |
| Casio 7000 | Geller NT2324 | Panasonic 4600,4610 | Sharp-ER-A410 | TOLEDO 8142,8530,8582 |
| Casio 7500 | Geller NT3412 | Panasonic 500 | Sicom | A&D MERCURY AD4323 |
| Casio 8000 | Gilbarco Passport | Panasonic 5000,5500,6000,7500 | Siemens See Nixdorf | Scale House 2000 |
| Casio 8500 | Gilbarco PCG SITE (RJ-45) | Panasonic 7000,7010 | Squirrel POS | **SERIAL PRINTERS** |
| Casio CE2300 | Gilbarco TCG-G2 (DB37) | Panasonic 8000,8800 | Suntronic 890,891,960,2000 | Star TSP200 Printer |
| Casio CE3700 | Gilbarco TCR-15 G-Site (DB-25) | Panasonic GS-750-WS | Swintec 2250 | STAR SP-300, 8540 |
| Casio CE3710 | Haven PC | Par POS 400 | Synchronics POS V12, V6.0 | CITIZEN 3540,3541 |
| Casio CE4000 | Hospitality POS PC Based | Paragon Clarity Smartpad | Tec 1050,1060 | Epson U200 |
| Casio CE4200 | Hospitality POS PC Based | PC's COM 1-4 DB25 or DB9 | Tec 1100, 1190 | Virtually ALL Serial Printers |
| Casio CE4615 | Huth T400/450 | PC's KEYBOARD TAP | Tec 1300 | **PARALLEL PRINTERS** |
| Casio CE4700 | IBM 3151 Terminal | PC's LPT 1-3, DB25 or Centronics | Tec 1350 | STAR SP-3000 |
| Casio CE6000/7000 | IBM 3151 Terminal | Posiflex EPOS | Tec MA-1400 | STAR 8540 |
| Casio QT2000 | IBM 4614 | Prosper ET7626 | Tec MA-1450 | Ultimate Tech PCOS Series 50 Printers |
| Casio QT2000 | IBM 4614 (Shure 1) | Prosper ET826 | Tec MA-1650/FS-1650 | Virtually ALL Parrallel Printers |
| Casio SA1000 | IBM 4614 EXXON | Quest VME40X | Tec MA-1700 | STAR SP-3000 |
| Casio SA2000,2100 | IBM 4680 Network | Quickbooks POS | Tec MA305 | STAR 8540 |
| Casio SA5000 | IBM 4680 Series | Radient M100 | Tec MA516 | Ultimate Tech PCOS Series 50 Printers |
| Casio TK1300 | IBM 4694 | Radient System M100 | Tec ST-5600 | **POLE DISPLAYS** |
| Casio TK2100 | IBM RDS | Riva EPOS System | Tec ST-5600 | DRESSER WAYNE POLE DISPLAY |
| Casio TK2200 | IBM Shure POS | Ruby SuperSystem | Tec ST-5600 | ULTIMATE TECH MODEL 1 POLE DISPLAY |
| Casio TK2300 | ICL 9518, 200 | Ruby Verifone | Tec ST-5601 Cost Cutter | Logic Controls PD-3000 |
| Casio TK2300 LCD VERSION | ICL TEAM POS 5000, SELECT | Sam 46xx | Tec 1190,1400 | Virtually all Pole Displays |
| Casio TK2600 | JCM Gold 4800 | Sam EPOS System | Tec 1450,1650, 1600, 1700, 1900 | **ATM/ABM MACHINES** |
| Casio TK2700 | JCM Gold G-225 | SAMMs 5100,5115,5140 | Tec 135,136,141,190,191 | ALL MANUFACTURERS -ALL ATMS |
| Casio TK500 | JCM Gold G-381 | SAMMs 5200,5215,5240 | Tec FS-150,160 | ALL MANUFACTURERS -ALL ATMS |
| Casio TK500 | Koppens 1000,2000,3000,4000, PRO | Samsung 5100,5115,5140 | Tec 206216 | ALL MANUFACTURERS -ALL ATMS |
| Casio TK5100 | Merit EPOS system | Samsung 6500,6540 | Tec 227 | |
| Casio TK6500 | Merit EPOS system | Samsung 6500,6540 | Tec 2200,2300 | |
| Computers COM 1-4 DB25 or DB9 | Merlin MP2 | Samsung 6500,6540 | Tec FDS-30 | |
| Computers KEYBOARD TAP | Micrelec 9500 | Samsung ER650 | Tec FDS-300 | |
| CRS 1000, 2000, 3000 | Micrelec Master Series | Samsung SPS 1000 | Tec RE-3000,3500 | |
| CRS RSenCounter 4000, RSencounter5000 | Micrelec Master Series | Samsung SPS 1000 | Tec MA-230 | |
| Datachecker/ICL Mainframe 1600, 1700, 1800 | Microlec Master Series, 9500 | Sanyo 338 | Tec MA-270 | |
| Datachecker/ICL Mainframe 1600, 1700, 1800 | Micromax 1000,2000,3000,4000, PRO | Sanyo 425 | Tec MA-290 | |
| Datasym 6000 | Micros 1000,2000,2400,2700 | Sanyo 635,645 | Teknika G-3600 | |
| Datasym D2000, 2010,2500, H2000,H2050 | Micros 3000,3700,4000,4700,8700,9700 | Sanyo 690,691,692 | Texas Instr 924 POS (ACE HDW) | |
| DEBS 2000 | Micros 3700 | Sanyo 700,710,720 | Tokheim MEMS-5, VISION 200 | |
| Decpos | Micros E-Mon for 8700,9700 | Sasi MN 1028 | Tokheim HIGHWAY | |
| Delta EPOS System | MSD | Schlumberger 1000,2000,3000,4000, PRO | Tokheim FUEL-POS | |
| Digipos 2000 | Multipoint TCR-10,20 | Schlumberger FUEL POS | Tokheim MEMS-5, VISION 200 | |
| Digital Dining PC-Based | NCR 1255 | Sharp 1911 | Towa 8626 MP3 | |
| Digital Dining PC-Based | NCR 1255 | Sharp 2908 | Towa ET-6420S | |
| DRB CARWASH | NCR 2113,3000 | Sharp 2910 | Towa Prosper ET-7626 | |
| Dresser Wayne 3+ | NCR 2123,3000 | Sharp 3220,3221 | Triangle TMS-16 | |
| Dresser Wayne 3+ | NCR 2127 | Sharp 4000,4500 | Ultimate Tech Pole Display | |
| Dresser Wayne Nucleus 8 | NCR 2170 | Sharp ER-1772S | Uniwell UX-50 | |
| DTS 500,520,545,540,560 | NCR 2557 | Sharp ER-1875 | Uniwell SYSTEM 3 | |
| Easy2Touch TS600 | NCR 2760 | Sharp ER-1920/1 | Uniwell SX-6600-03 or 05 | |
| Edacom 10,5700- POS TERMINAL | NCR 7050 Unity with LAN Capture | Sharp ER-1970 | Uniwell SX-700 | |
| Edacom 90/10 | NCR 7052,7054 | Sharp ER-3100 | Uniwell SX-7000 | |
| Edacom 90/10 | NCR 7058 | Sharp ER-3110 | Uniwell SX-800 | |
| Edacom 90/10 * New LCD * | NCR 7058 | Sharp ER-3115 | Uniwell SX-8000 | |
| Edacom 90/10* New LCD * | NCR 7059 | Sharp ER-A310 | Uniwell SX-850 | |
| Epos Model 3000 | NCR 7450 | Sharp ER-A330 | Uniwell TX-850 | |
| Europad 2000 | NCR 7452 | Sharp ER-A420 | Uniwell UX-8500 | |
| Europad EP300 | NCR 7453Q | Sharp ER-A440 | Uniwell UX40 | |
| Europad EP-3000 | NCR LCSIO 7050,7051,7053,7070 | Sharp ER-A450T | Uniwell UX41 | |
| Fasfax Mark 4,5 | Nixdorf Beetle 50 | Sharp ER-A460 | Uniwell UX43-03 | |
| Fasfax Mark V, 512K CPU | Nixdorf Beetle L | Sharp ER-A470 | Uniwell UX50 | |
| Fujitsu 9920 | Nixdorf POS 2000, 2010 | Sharp ER-A510 | Uniwell UX60 | |
| Fujitsu 9960 | Nixdorf POS 2010, RS232 | Sharp ER-A520 | Uniwell UX70 | |
| Fujitsu G2220 | Norand 1200 | Sharp ER-A530 | Uniwell UX7000 | |
| Gasboy | Norand 1200 | Sharp ER-A550 | Uniwell UX7500 | |
| Geller 604 | Olivetti POS | Sharp ER-A570 | Uniwell UX-M750 | |
| Geller CRS3000 | Olympia 4100 | Sharp ER-A610 | Vectron POS Mini | |
| | Omega 2000 | Sharp ER-A750 | Verifone Ruby, Super System | |

***THE VSI-PRO IS COMPATIBLE WITH HUNDREDS OF CASH REGISTERS***

*However, that is not all the VSI-PRO will work with. The VSI-PRO Fraud Detection System is also compatible with the following machines:*

- ***MONEY COUNTERS***
- ***WEIGH BRIDGES***
- ***SERIAL PRINTERS***
- ***PARALELL PRINTERS***
- ***POLE DISPLAYS***
- ***ATM / ABM MACHINES***


T: 0845 600 9323 | F: 0845 600 9363 | E: sales@ave-uk.com

## AVE FRAUD DETECTION EQUIPMENT

To combat theft at the 'point-of-sale' AVE have several "Text Over Video" products to review transaction details from the Cash Register onto the CCTV image.

Due to the various configurations and location of equipment, AVE have come up with a solution to suit every application. Some simple systems will need a REG-COM, HYDRA or NETWORKER, depending on what the user wants to achieve.

Our full range of Electronic Point Of Sale (EPOS) Fraud Detection Equipment may be confusing to some so please feel free to consult with an AVE engineer. We will endeavour to advise a cost effective solution for your Fraud detection needs.

## VSI-PRO VIDEO SERIAL INTERFACE

*The VSI-PRO can be used in simple or multiple cash register systems.*

## REG-COM

*Can replace the VSI-PRO in multiple cash register systems.*

*Tamper resistant.*

## HYDRA
ATM TCP/IP TO RS232 CONVERTER

*Acts as a server in a multiple cash register system. It sorts data from numerous cash registers and stores it in a searchable format.*

*Tamper resistant.*

## P2RS
PARALLEL TO SERIAL CONVERTER

*Converts high speed parallel data to serial data and sends the data out through the RS-232 port to the VSI-PRO text converter which in turn overlays this data onto video.*

## TCP/IP
ATM TCP/IP TO RS232 CONVERTER

*Provides protocol conversion from any POS or ethernet TCP/IP to RS-232 for the use with the VSI-PRO or Cashtrack DVR.*

*Can be used in ATM Monitoring*

## NETWORKER
SERVER

*Acts as a server in multiple cash register systems. Used in conjunction with the VSI-PRO.*

# ATM FRAUD DETECTION

- REDUCE FRAUDULENT USE OF ATM
- REDUCE THREAT OF POSSIBLE ATTACK AT ATM
- IDENTIFY THOSE INVOLVED IN ILLEGAL ACTIVITY AT ATM
- WILL IDENTIFY EXCEPTIONS DEFINED
- EASILY REVIEW ATM USE, USERS, AND MISUSE

## ATM MONITORING

ATM TEXT INTERFACE SUPPORTING BANK ATM NETWORKS

Automatic Teller Machines (ATM) are a high security risk. They are at risk from Tampering, Vandalism, Theft and Personal Attack of users.

American Video Equipments' video serial interface (VSSI-PRO) for ATMs connects a modem and the ATM to the external camera controller port on the ATM. The interface monitors the data stream from the ATM, and inserts printer or display data from the receipt onto the video picture.

Available ATM interfaces - Interbold, MDS, Dibold, Fujitsu, Hitachi, NCR, Mossler, Omron, Seimens, Unisys/Burrogufghs and IBM and all others running emulation modes of the above vendors within machine(s).

THE VSSI-PRO AND THE TRIPORT ATM CABLE HANDLES SDLC, SYNC, ASYNC, AND BISYNC FORMATS FOR ALL ATM HOSTS.

VSSI - PRO

ATM Text Interface

TRIPORT - ATM

2 Channel Triport for Bank ATM

## FEATURES

- Time / Date on-screen, On/Off Time/Date, Genlock to Host PC
- Time / Date stamp on exception output
- 32K Battery backed SRAM - Improved buffer (exception buffering, downloading / and printing)
- Auto Poll Select Address Setup
- Auto Network Configure SDLC or Bisync
- Printer output
- 2 Programmable Alarm Outputs
- Card Reader Contact Input
- Programmable triggered text provides for serial output for the control of VCR, Multiplexer, Matrix, PTZ, Access system, etc.
- 24 exceptions: Remove unwanted data from screen, Alarm certain types of transactions, Send certain transactions to printer.


T: 0845 600 9323 | F: 0845 600 9363 | E: sales@ave-uk.com

# EPOS FRAUD DETECTION

- MONITORS CASH REGISTER DATA
- PRODUCES A SEARCHABLE DATABASE OF EXCEPTIONS
- NETWORKABLE - IMAGES CAN BE REVIEWED BY PC, & WITH INTERNET CONNECTION, FROM ANYWHERE IN THE WORLD
- REDUCES PILFERING FROM CASH REGISTERS

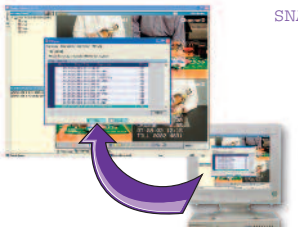
## CASHTRACK - COMPATIBLE WITH OVER 400 CASH REGISTERS

CashTrack from AVE is a DVR with in-built EPOS software. When used with the VSI-PRO the CashTrack system overlays serial data onto a CCTV image; typically from a cash register, but can be used for many other devices, such as weigh bridges, speed cameras, ATMs, Cash counting devices, etc.

The data overlaid is permanently embedded onto the images, and therefore cannot be tampered with. The combination of cash register Data and CCTV images makes it easy to identify suspicious transactions.

REVIEW RECORDED TILL IMAGES AND CAPTURED DATA FROM ANYWHRE IN THE WORLD!

MV-DR5000 - 160GB with CASHTRACK
MV-DR5000 - 250GB with CASHTRACK



SNAP SHOT OF CASHTRACK POS MENU

POS software allows:

- Remote search and viewing of suspicious events
- Easier access of recorded data
- Greater number of programmable exceptions
- Covert operation made easier

## HOW DOES IT WORK

### SUITABLE APPLICATIONS:

- Cash registers (over400 models)
- ATM - cash points
- Weigh bridges
- Cash Counters

Video images from the CCTV system goes into the VSI-PRO. The camera selected typically watches the general cash register area, including the register, counter, employee and customer.

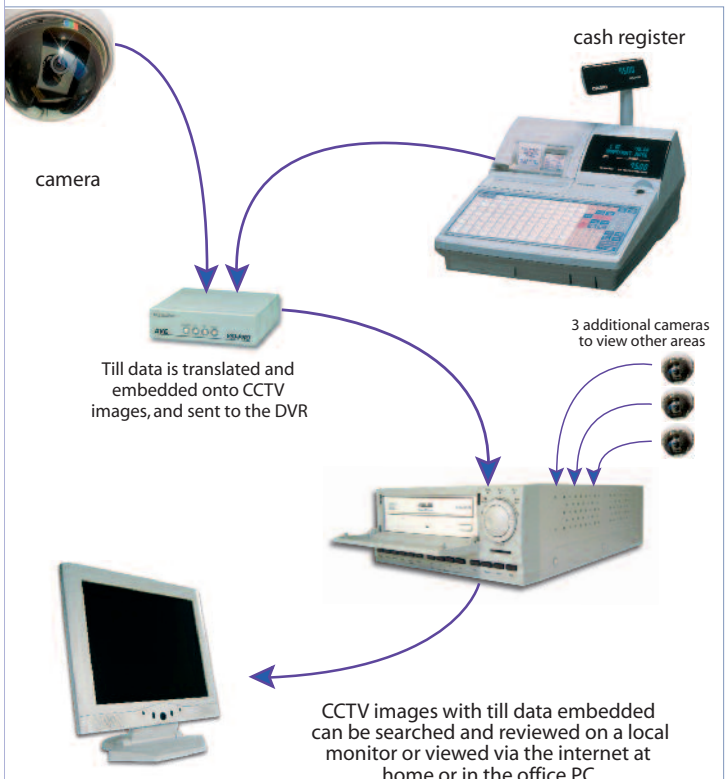
Transaction data from the cash register goes to the VSI-PRO, where it is filtered and translated into viewable 'receipt' type text.

The VSI-PRO then overlays the till data onto the CCTV images and embeds it permanently, so it cannot be tampered.

These new images are sent to the recorder for storage.

Images stored on the Recorder can then be analysed and searched by user, alarms exceptions, voids or any other parameters set up by the user.

This is a basic system, but multi-cash register systems can also be accommodated with the use of an AVE CashTrack DVR and AVE Network which can handle numerous cash registers at the same time.


cash register
camera
Till data is translated and embedded onto CCTV images, and sent to the DVR
3 additional cameras to view other areas
CCTV images with till data embedded can be searched and reviewed on a local monitor or viewed via the internet at home or in the office PC.

# DIGITAL RECORDERS

As one of the world's leading suppliers of CCTV , AVE have a large selection of Digital Recorders to suit any application. Whether you require a single channel DVR - perhaps if you are looking to upgrade an existing VCR based system, or whether you require a top of the range 16 channel DVR for larger installations, AVE has the solution.

## MV-DR2000

- MV-DR2000-160GB
- MV-DR2000-250GB
- MV-DR2000-300GB
- MV-DR2000-500GB
- MV-DR2000-750GB

## MV-DR2000

- MV-DR2000L-160GB
- MV-DR2000L-250GB
- MV-DR2000L-300GB
- MV-DR2000L-500GB
- MV-DR2000L-750GB

The ideal replacement for the VCR in new or existing CCTV systems with Multiplexers, Quads etc.

160GB gives approximately 31 days recording at 24-hour time lapse mode. Optional LAN compatiblity for remote monitoring.

## 1 CHANNEL

- SINGLE CHANNEL
- SIMPLEX DVR
- REMOVABLE HDD
- SD CARD
- NETWORK OPTION AVAILABLE.

| SPECIFICATIONS | MV-DR2000 | MV-DR2000L |
|---|---|---|
| No. of Channels | 1 | 1 |
| Max HDD Capacity | 750GB | 750GB |
| Removable Hard Drive | 1 | 1 |
| Images per second: | 25ips | 25ips |
| Network Ready | No | Yes |
| Dial up facility | No | Yes |
| Audio Inputs | 1 | 1 |
| Audio Outputs | 1 | 1 |
| Compression: | Mjpeg | Mjpeg |
| Remote Keyboard: | No | No |
| POS Software | No | No |
| Archiving: | SD Card | SD Card |

### FEATURES

- Non PC based stable digital recorder with major digital advantages including:
  - Pre-Alarm recording capability
  - Network capability
- Capable of working with most existing multiplexers
- Multiple search modes including:
  - Filter (thumbnail) list search
  - Time search
  - SD Card search
  - Alarm search
  - Event search
- Multiple recording modes including:
  - Schedule recording
  - Pre and post-alarm recording
  - Manual recording
  - Circular recording
- Playback Speeds:
  - Frame stepping,
  - 1/16X, 1/8X, 1/4X, 1/2X ,
  - 1X, 2X, 4X, 8X, 16X, 30X, 100X
- Network capabilities:
  - View live or recorded images,
  - Remote system adjustment,
  - Ethernet (10/100 Base-T),
  - TCP/IP, DHCP, HTTP, SMTP
- Operation status record log
- Power interrupt recovery
- User friendly Jog / Shuttle operation
- Motion Detection



T: 0845 600 9323 | F: 0845 600 9363 | E: sales@ave-uk.com

# 1 CHANNEL

- SINGLE CHANNEL
- TRIPLEX DVR
- CD›RW DRIVE
- SD CARD
- NETWORK READY

| SPECIFICATIONS | MV-DR3000L |
|---|---|
| No. of Channels | 1 |
| Max HDD Capacity | 750GB |
| Removable Hard Drive | No |
| Images per second: | 25ips |
| Network Ready | Yes |
| Dial up facility | No |
| Audio Inputs | 1 |
| Audio Outputs | 1 |
| Compression: | Mjpeg |
| Remote Keyboard: | No |
| POS Software | No |
| Archiving: | CD›RW / SD Card |

## MV-DR3000L

- MV-DR3000L-160GB
- MV-DR3000L-250GB
- MV-DR3000L-300GB
- MV-D3000L-500GB
- MV-DR3000L-750GB

## FEATURES

- Non PC based stable digital recorder with major digital advantages including:
  - Pre-Alarm recording capability
  - Network capability
- Capable of working with most existing multiplexers
- Multiple search modes including:
  - Filter (thumbnail) list search
  - Time search
  - SD Card search
  - Alarm search
  - Event search
- Multiple recording modes including:
  - Schedule recording
  - Pre and post-alarm recording
  - Manual recording
  - Circular recording
- Playback Speeds:
  - Frame stepping,
  - 1/16X, 1/8X, 1/4X, 1/2X ,
  - 1X, 2X, 4X, 8X, 16X, 30X, 100X
- Network capabilities:
  - View live or recorded images,
  - Remote system adjustment,
  - Ethernet (10/100 Base-T),
  - TCP/IP, DHCP, HTTP, SMTP
- Operation status record lo
- Power interrupt recovery
- User friendly Jog / Shuttle operation
- Motion Detection

# DIGITAL RECORDERS

As one of the world's leading suppliers of CCTV, AVE have a large selection of Digital Recorders to suit any application. Whether you require a single channel DVR - perhaps if you are looking to upgrade an existing VCR based system, or whether you require a top of the range 16 channel DVR for larger installations, AVE has the solution.

## MV-DR4000

- MV-DR4000-160GB
- MV-DR4000-250GB
- MV-DR4000-300GB
- MV-DR4000-500GB
- MV-DR4000-750GB

## MV-DR4000L

- MV-DR4000L-160GB
- MV-DR4000L-250GB
- MV-DR4000L-300GB
- MV-DR4000L-500GB
- MV-DR4000L-750GB

SHOCK RACK

Mobile Rack Shock Absorber for DR2000/4000/5000 when used in vehicles. (DVR not included)

## 4 CHANNEL

- 4 CHANNEL
- SIMPLEX DVR
- REMOVABLE HDD
- ARCHIVE TO SD CARD SLOT
- NETWORK OPTION

| SPECIFICATIONS | MV-DR4000 | MV-DR4000L |
|---|---|---|
| No. of Channels | 4 | 4 |
| Max HDD Capacity | 750GB | 750GB |
| Removable Hard Drive | 1 | 1 |
| Images per second: | 25ips | 25ips |
| Network Ready | No | Yes |
| Dial up facility | No | No |
| Audio Inputs | 1 | 1 |
| Audio Outputs | 1 | 1 |
| Compression: | Mjpeg | Mjpeg |
| Remote Keyboard: | No | No |
| POS Software | No | No |
| Archiving: | SD Card | SD Card |

### FEATURES

- Non PC based stable digital recorder with major digital advantages including:
  - Pre-Alarm recording capability
  - Network capability
- Capable of working with most existing multiplexers
- Multiple search modes including:
  - Filter (thumbnail) list search
  - Time search
  - SD Card search
  - Alarm search
  - Event search
- Multiple recording modes including:
  - Schedule recording
  - Pre and post-alarm recording
  - Manual recording
  - Circular recording
- Playback Speeds:
  - Frame stepping,
  - 1/16X, 1/8X, 1/4X, 1/2X ,
  - 1X, 2X, 4X, 8X, 16X, 30X, 100X
- Network capabilities:
  - View live or recorded images,
  - Remote system adjustment,
  - Ethernet (10/100 Base-T),
  - TCP/IP, DHCP, HTTP, SMTP
- Operation status record log
- Power interrupt recovery
- User friendly Jog / Shuttle operation
- Motion Detection


T: 0845 600 9323 | F: 0845 600 9363 | E: sales@ave-uk.com

# 4 CHANNEL

- 4 CHANNEL
- TRIPLEX DVR
- CD›RW DRIVE,
- SD CARD
- AND LAN

| SPECIFICATIONS | MV-DR5000 |
|---|---|
| No. of Channels | 4 |
| Max HDD Capacity | 750GB |
| Removable Hard Drive | No |
| Images per second: | 25ips |
| Network Ready | Yes |
| Dial up facility | No |
| Audio Inputs | 1 |
| Audio Outputs | 1 |
| Compression: | Mjpeg |
| Remote Keyboard: | No |
| POS Software | No |
| Archiving: | CD›RW / SD Card |

## MV-DR5000

- MV-DR5000-160GB
- MV-DR5000-250GB
- MV-DR5000-300GB
- MV-DR5000-500GB
- MV-DR5000-750GB

## FEATURES

- Non PC based stable digital recorder with major digital advantages including:
  - Pre-Alarm recording capability
  - Network capability
- Capable of working with most existing multiplexers
- Multiple search modes including:
  - Filter (thumbnail) list search
  - Time search
  - SD Card search
  - Alarm search
  - Event search
- Multiple recording modes including:
  - Schedule recording
  - Pre and post-alarm recording
  - Manual recording
  - Circular recording
- Playback Speeds:
  - Frame stepping,
  - 1/16X, 1/8X, 1/4X, 1/2X ,
  - 1X, 2X, 4X, 8X, 16X, 30X, 100X
- Network capabilities:
  - View live or recorded images,
  - Remote system adjustment,
  - Ethernet (10/100 Base-T),
  - TCP/IP, DHCP, HTTP, SMTP
- Water marking with digital signature (DR5000)
- Operation status record log
- Text insertion for POS & ATM Interfacing via VSI-PRO (optional)
- Power interrupt recovery
- User friendly Jog / Shuttle operation
- Motion Detection

# DIGITAL RECORDERS

As one of the world's leading suppliers of CCTV, AVE have a large selection of Digital Recorders to suit any application. Whether you require a single channel DVR - perhaps if you are looking to upgrade an existing VCR based system, or whether you require a top of the range 16 channel DVR for larger installations, AVE has the solution.

## TITAN
## MV-DR8T

- MV-DR8T-250GB
- MV-DR8T-300GB
- MV-DR8T-500GB
- MV-DR8T-600GB
- MV-DR8T-800GB
- MV-DR8T-1Tb
- MV-DR8T-1.5Tb

## TITAN
## MV-DR16T

- MV-DR16T-250GB
- MV-DR16T-300GB
- MV-DR16T-500GB
- MV-DR16T-600GB
- MV-DR16T-800GB
- MV-DR16T-1Tb
- MV-DR16T-1.5Tb

## *8/16 CHANNEL*

- 8/16 CHANNEL
- TRIPLEX DVR
- TWO HARD DISK DRIVES
- ARCHIVE TO DVD
- ARCHIVE TO USB PORT
- NETWORK READY

| SPECIFICATIONS | MV-DRT-8/16 |
|---|---|
| No. of Channels | 8 OR 16 |
| Max HDD Capacity | 1.5TB |
| Removable Hard Drive | 2 |
| Images per second: | 100ips |
| Network Ready | Yes |
| Dial up facility | Yes |
| Audio Inputs | 1 |
| Audio Outputs | 1 |
| Compression: | Mpeg4 |
| Remote Keyboard: | Yes |
| POS Software | No |
| Archiving: | Built in DVD›RW, USB 2 Port |

### FEATURES

- 8/16 Channel Triplex DVR
- LAN ready
- Compression: MPEG4 (5-10X smaller than MJPEG)
- Maximum 1.5TB HD (2 Removable HDD's)
- Recording Rate: 100pps
- 2 channels, in and out, for audio recording
- Built in CD-RW & USB Port for Archiving
- Exports as DRV file and playback softwareis also copiedonto the HDD
- Automatic camera detection (Plug & Play)
- Digital zoom 2x2 in live & exported video
- Covert camera operation provides enhanced security & administer control.
- ezBurn & ezRecord technology allows for easy download and export of recorded video setup
- Pre-Alarm recording up to 30 seconds
- Search by event, Time, Text String, Amount of transaction, and motion
- PTZ control on front panel
- Option for SVGA Output, to accept a PC Monitor


T: 0845 600 9323 | F: 0845 600 9363 | E: sales@ave-uk.com

## 8/16 CHANNEL

- 16 CHANNEL
- TRIPLEX DVR
- 4 REMOVABLE HDDS
- ARCHIVE TO DVD›RW
- ARCHIVE TO USB PORT
- LAN
- POS SOFTWARE.
- 200 / 400 ips

| SPECIFICATIONS | MV-DR16-X |
|---|---|
| No. of Channels | 16 |
| Max HDD Capacity | 3Tb (+3Tb of Raid) |
| Max External HDD capacity | 3Tb |
| Removable Hard Drive | 4 |
| Images per second: | 200ips or 400ips upgrade |
| Network Ready | Yes |
| Dial up facility | Yes |
| Audio Inputs | 2 (or 16 with audio hub) |
| Audio Outputs | 2 |
| Compression: | Mpeg4 / MJPEG |
| Remote Keyboard: | Yes |
| POS Software | Yes |
| Archiving: | Built in DVD›RW. USB Port |

### FEATURES

- 16 Channel Triplex DVR
- LAN ready
- Compression: MPEG4 / MJPEG (5-10X smaller than MJPEG)
- Maximum 3TB Internal Storage
- 4 Removable Hard drives
- Recording Rate: 200ips, upgrade to 400ips
- 2 channels, in and out, for audio recording
- Built in DVD-RW & USB Port for Archiving
- Automatic camera detection (Plug & Play)
- Digital zoom 2x2 in live & exported video
- Covert camera operation
- ezBurn & ezRecord technology allows for easy download and export of recorded video setup
- Pre-Alarm recording up to 30 seconds
- Search by event, Time, Text String, Amount of transaction, and motion
- PTZ control on front panel
- Option for SVGA Output, to accept a PC Monitor
- Exports AVI files (viewable via Microsoft Media Player on any PC with DivX installed)
- EPOS software installed, when used with the VSI-PRO, produces a searchable database of transactions.

## XCALIBUR
### MV-DR16X

- MV-DR16X-500GB
- MV-DR16X-750GB
- MV-DR16X-800GB
- MV-DR16X-1TB
- MV-DR16X-1.5TB
- MV-DR16X-2TB
- MV-DR16X-2.5TB

## XCALIBUR
### MV-DR16XU
(400ips UPGRADE)

- MV-DR16XU-500GB
- MV-DR16XU-800GB
- MV-DR16XU-1TB
- MV-DR16XU-1.5TB
- MV-DR16XU-2TB
- MV-DR16XU-2.5TB

# OMNIVIEW DIGITAL

VIDEO TRANSMISSION SYSTEM WITH LONG TERM RECORDING

The OmniView provides long-term recording onto a removable hard disk drive with many options for recording, including independent record parameters specific to each camera. Continuous recording is available as well as motion and alarmed recording. Remote viewing is via dial up or IP connection and because OmniView is fully Triplex, there is no restriction on simultaneous transmission, playback and live recording. A choice of 4 and 10 channel products are available in PAL.

4 / 10 CHANNEL DIGITAL VIDEO TRANSMISSION SYSTEM WITH LONG TERM RECORDING

MV-OVA4

MV-OVA10

## 4/10 CHANNEL

4 / 10 CHANNEL DIGITAL VIDEO TRANSMISSION SYSTEM WITH LONG TERM RECORDING

| SPECIFICATIONS | OMNIVIEW |
|---|---|
| No. of Channels | 4 OR 10 |
| Max HDD Capacity | 500GB |
| Removable Hard Drive | YES |
| Frames per second: | 100 |
| Network Ready | Yes |
| Dial up facility | Yes |
| Inputs | 4/10 |
| Outputs | 2 › 18 |

USED IN CENTRAL MONITORING STATIONS AROUND THE WORLD

## OMNIVIEW OPTIONS:

ISDN CARD
GSM CARD
AUDIO CARD

PRE›FORMATTED DEDICATED HDD WITH REMOVABLE CRADLE ASSEMBLY

RHDD-320GB.
RHDD-500GB.

## FEATURES

**The OmniView allows the remote user to:**

- View Live Video in Real Time (up to 25pps depending on broadband provider)
- Control PTZ camera Functions
- Control relays e.g. open doors, barriers, switch lights on/off. Up to 10 alarm inputs, 2 relay outputs, expandable to 18.
- Capture and download events or incidents
- Interrogate Unit HDD remotely
- Up to 10 users can view video from the unit simultaneously.
- Two way communication from remote Central Station to listen to Audio on site and transmit Voice communications to site via Amp and Speakers

**SPECIFICATIONS**

- Can connect up to 10 cameras
- Records at up to 100pps.
- Transmits live video
- Removable HDD
- Connects via Broadband GSM, PSTN, ISDN LAN/WAN for transmission of Video.
- Event triggers accepted from Access Control or Intruder systems
- Video can be viewed via PC, smart phone or PDA
- Video can be accessed from anywhere in the world.


T: 0845 600 9323 | F: 0845 600 9363 | E: sales@ave-uk.com

# ACCESSORIES

## GSM DIALER
Allows remote access to Omniview DVR.

## RACK-SINGLE
19" Rack Kit to house one DVR (MV-DR2000/4000/5000 only).

## RACK-DOUBLE
19" Rack Kit to house two DVR's. (MV-DR2000/4000/5000 only).

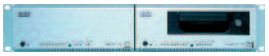
## SHOCK RACK
Mobile Rack Shock Absorber for DR2000/4000/5000 when used in vehicles. (DVR not included)

## HDD-TRAY-X000
Spare removable HDD caddy (excludes HDD).

## PSU-DRX000-4A
4A power supply to suit MV-DR2000 / 4000 / 5000 DVRs.

## AUDIO-OMNI
Audio module for bi-directional transmission of digital audio signals (voice quality)

## RACK-OMNI
Installation kit for mounting of up to 2 SVR series devices.



## PTZ-REM-AD
For remote control of PTZ systems and 16 additional relays (e.g. for lighting, door control systems, etc.) data link/transfer via transparent data channel from omniview.

## REM-KB-XTC
Basic remote keyboard to suit Xcalibur and Titan DVRs

## REM-KB-AD
Advanced, fully featured keyboard with Dome Control R485 and DVR Control RS485 to suit Xcalibur, Titan, and DMS DVRs

## REM-KB-6000
Remote keyboard to suit MV-DR6000.

## DRX-EXT-RAID
External Raid for TITAN / XCALIBUR range with 1TB / 2TB of HDD capacity included.

DRX›EXT›RAID › 1TB
DRX›EXT›RAID › 2TB

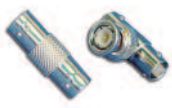
## PSU-12VDC 350mA
Power supply to suit cameras and VSI-PRO.

## PSU-16-5A
4A power supply to suit MV-DR9 and MV-DR16.

## SINGLE CHANNEL LINE DRIVER
Converts RS-232 signals to either RS-485 or RS-422 and vice versa. Increases length of cable when using RS-232 port of any DVR from max100m to 1000m.

## BNC PLUGS
Crimp-on BNC adaptor for RJ59 cable

## CONNECTOR
Joining RJ59 cable



STRAIGHT THRU PLUG
T PIECE BNC

AVE offer a wide range of DVR accessories. For more information on the products available or for assistance to meet your requirements, please contact a member of the AVE sales team.

# CAMERAS

The AVE range of cameras are suitable for many applications; from identification to general surveillance; and deliver crisp clear images. Dome cameras deliver overt and tamper resistant monitoring whilst our covert cameras deliver clear images from hidden cameras that have been incorporated into unobtrusive objects by qualified engineers.

## VANDAL RESISTANT VARIFOCAL NIGHT & DAY CAMERA or DOME LED CAMERA

VRVFDND /VRVFDNDIR /VRVFCD1

MV-VRV-BRKT
VANDAL RESISTANT BRACKET

(Camera sold separately)

## SPECIFICATIONS

**VRVFDND - Vandal Resistant Colour / Monochrome Dome:**

- Vandal Resistant Dome
- Weather Resistant IP66
- Ceiling or wall, surface or flush Mount.
- Built in Lens, 3.8 - 9.5mm
- Tamper Resistant Screws

| | |
|---|---|
| Image Sensor: | 1/3" High Res. Sony Super HAD CCD |
| Resolution: | More than 520TVL |
| Minimum Illumination: | 0.15Lux @ F0.2 Colour/Mono |
| Built in Varifocal Lens: | 3.8 - 9.5mm Lens |
| Power Supply: | 12Vdc |
| Current Consumption: | 140mA or Less |

**VRVFDNDIR - VR Colour / Monochrome Dome With IR:**

- Vandal Resistant Dome
- Weather Resistant IP66
- Ceiling or wall, surface or flush Mount
- Built in Lens, 4 - 8mm
- Tamper Resistant Screws

| | |
|---|---|
| Image Sensor: | 1/3" High Res. Sony Super HAD CCD |
| Resolution: | More than 520TVL |
| Minimum Illumination: | 0.5Lux @ F0.2 |
| Built in Varifocal Lens: | 4 - 8mm Lens |
| Power Supply: | 12Vdc |
| Current Consumption: | 460mA |

**VRVFCD1 - Vandal Resistant Colour Dome:**

- Vandal Resistant Dome
- Weather Resistant IP66
- Ceiling or wall, surface or flush Mount
- Built in Lens, 4 - 8mm
- Tamper Resistant Screws

| | |
|---|---|
| Image Sensor: | 1/3" High Res. Sony Super HAD CCD |
| Resolution: | More than 520TVL |
| Minimum Illumination: | 0.15Lux @ F0.2 Colour/Mono |
| Built in Varifocal Lens: | 3.8 - 9.5mm Lens |
| Power Supply: | 12Vdc |
| Current Consumption: | 140mA or Less |

## VANDAL RESISTANT COLOUR DOME

MV602A

MV-602A

## SPECIFICATIONS

**MV-602A - Vandal Resistant Colour Dome:**

- Vandal Resistant Dome
- Eyeball adjustment for ease of installation.
- 23 built in IR LEDs

| | |
|---|---|
| Image Sensor: | 1/4" SONY CCD |
| Pixels: | 512(H) X 582 (V) |
| Minimum Illumination: | 420TVL @0Lux (IR on) |
| Built in Lens: | 6mm |
| Power Supply: | 12Vdc |
| IR View distance: | 15 - 20m |



To place an order call 0845 600 9323 or e-mail sales@ave-uk.com

# DOME CAMERAS

## HIGH RESOLUTION DAY/NIGHT DOME CAMERA
MV-2DNDIR & MV-2DNDVFIR

MV-2DNDIR

MV-2DNDVFIR

MV-2DNDIR
MV-2DNDVFIR

### MV-2DNDIR / MV-2DNDVFIR- Vandal Resistant Colour Dome with Infra Red LED:

- 1/3” Super HAD CCD
- High Resolution 420TVL
- Weather Resistant IP66
- Ceiling Wall Mount
- 3.6mm fixed Lens (MV-2DNIR)
- 24 LEDs (MV-2DNIR)
- Vandal Resistant Dome
- ‘Eyeball’ movement; easy set up
- Tamper Resistant Screws
- Surface or Flush Mount
- 4-8mm Varifocal Lens (MV-2DNVFIR)
- or 28 LEDs (MV-2DNVFIR)

| MV-2DNIR | |
|---|---|
| Image Sensor: | 1/3" Super HAD CCD / EX-VIEW CCD |
| Resolution: | 420TVL |
| Minimum Illumination: | 0.0Lux |
| Power Supply: | 12Vdc |
| Power Consumption: | 500mA |
| Lens: | 3.6mm fixed lens |

| MV-2DNVFIR | |
|---|---|
| Image Sensor: | 1/3" Super HAD CCD / EX-VIEW CCD |
| Resolution: | 480TVL |
| Minimum Illumination: | 0.0Lux |
| Power Supply: | 12Vdc |
| Power Consumption: | 500mA |
| Lens (MV-2DNDVFIR): | 4-8mm varifocal lens |

### MV-605BH / MV-605BX

- Built in IR LED’s.
- Varifocal Lens
- Eyeball Adjustment for ease of installation
- Very High Resolution
- Built in IR LED’s

| | |
|---|---|
| Image Sensor: | 1/3" SONY CCD |
| Rixels: | 752(H) x 582(V) |
| Resolution (MV-605BH): | 520TVL |
| Resolution (MV-605BX): | 500TVL |
| Minimum Illumination: | 0Lux (IR On) |
| Auto Gain Control: | Automatic |
| IR LED’s | 36 (30m view distance) |
| Auto White Balance: | Automatic |
| Lens: | 4-9mm |
| Power Supply: | 12Vdc |

## VANDAL RESISTANT DOME
MV-605BH / MV-605BX

MV-605BH / MV-605BH

# CAMERAS

The AVE range of cameras are suitable for many applications; from identification to general surveillance; and deliver crisp clear images. Dome cameras deliver overt and tamper resistant monitoring whilst our covert cameras deliver clear images from hidden cameras that have been incorporated into unobtrusive objects by qualified engineers.

## DAY / NIGHT CAMERA WITH INFRA RED ILLUMINATOR
MV-DNVFIR10 / MV-DNVFIR11

MV-DNVFIR10 / MV-DNVFIR11

## SPECIFICATIONS

- 1/3” Day /night Camera with Infra Red Illumination
- High Resolution
- Varifocal AutoIris Lens
- Cable Managed Bracket
- Weather Resistant
- Backlight Compensation
- 48 LED’s

| | |
|---|---|
| Image Sensor: | 1/3" SUPER HAD CCD |
| Resolution: | 520TVL (MV-DNVFIR10) 380TVL(MV-DNVFIR11) |
| Lens: | Varifocal DC Auto Iris 4 - 9mm |
| IR LED: | 48 |
| Minimum Illumination: | 0.05Lux, 0LuxIR LED on |
| Video Output: | 1.0Vp-p @75 ohms |
| White Balance: | AWB |
| No. of Pixels: | 752(H) x 582(V) x 440K |
| Power Supply: | 12Vdc |
| Power Consumption: | 1200mA |

## DAY/NIGHT CAMERA WITH INFRA RED ILLUMINATOR
MV-DNVFIR15

MV-DNVFIR15

## SPECIFICATIONS

| | |
|---|---|
| Image Sensor: | 1/3" Sony Super HAD CCD |
| Resolution: | 480TVL |
| Minimum Illumination: | 0 LUX (LED on @ 4LUX) |
| Number of Total Pixels: | 795 (H) x 596 (V) |
| Backlight Compensation: | On/Off switchable |
| Lens: | f3.8-9.5mm / f1.3Aspherical DN Lens |
| Power Supply: | 12Vdc |
| Power Consumption: | 4.5W |
| Operating Temperature: | 10°C~+50°C |
| Dimensions: | 140mm x 73mm (without bracket) |
| Weight: | 490g |
| IR LED | 15 Units |
| IR Working Distance | Indoor: 30-40m Outdoor: 20+30m |
| IP Rating | IP67 |

## VANDAL RESISTANT DOME
MV-3056DX / MV-3036D

MV-3056DX / MV-3036DX

## MV-3056DX / MV-3036D

- Built in IR LED’s.
- Varifocal Lens
- Cable managed bracket
- High Resolution
- Weather resistant

| | |
|---|---|
| Image Sensor: | 1/3" SONY CCD |
| Rixels: | 752(H) x 582(V) |
| Resolution (MV-3056DX): | 500TVL |
| Resolution (MV-3036D): | 420TVL |
| Minimum Illumination: | 0Lux (IR On) |
| Auto Gain Control: | Automatic |
| IR LED’s | 36 (50m view distance) |
| Auto White Balance: | Automatic |
| Lens Mount: | 4-9mm |
| Power Supply: | 12Vdc |



To place an order call 0845 600 9323 or e-mail sales@ave-uk.com

# DAY/NIGHT CAMERAS

## DAY / NIGHT CAMERA WITH BUILT IN LED s

MV-DNVFIR-20 / MV-DNVFIR-21

## SPECIFICATIONS

MV-DNVFIR-20
- Day Night Camera
- 540TVL
- 1/3” High Resolution
- Varifocal Lens
-Built In High Powered LED

| | |
|---|---|
| Image Sensor: | 1/3" SONY |
| Signal to noise ratio: | >50dB |
| Resolution: | 540TVL |
| Lens: | 3.9-9.5mm Varifocal Aespherical lens |
| Backlight Compensation: | Yes |
| Minimum Illumination: | 0.001Lux |
| White Balance: | Auto White Balance |
| Auto Gain Control: | Yes |
| No. of Pixels: | 752(H) x 582(V) x 440K |
| Power Supply: | 230Vac |
| Power Consumption: | 110mA |
| Dimensions: | 120mm x 117mm x 215mm |
| IR LEDs: | 6 LEDs |
| IR Working Distance: | up to 60m |
| Water Resistance Level: | IP66 |

## SPECIFICATIONS

MV-DNVFIR-21
- Day Night Camera
- 540TVL
- 1/3” High Resolution
- Varifocal Lens
-Built In High Powered LED

| | |
|---|---|
| Image Sensor: | 1/3" SONY |
| Signal to noise ratio: | >50dB |
| Resolution: | 540TVL |
| Lens: | 9-22mm Varifocal Aespherical lens |
| Backlight Compensation: | Yes |
| Minimum Illumination: | 0.001Lux |
| White Balance: | Auto White Balance |
| Auto Gain Control: | Yes |
| No. of Pixels: | 752(H) x 582(V) x 440K |
| Power Supply: | 230Vac |
| Power Consumption: | 110mA |
| Dimensions: | 120mm x 117mm x 215mm |
| IR LEDs: | 6 LEDs |
| IR Working Distance: | up to 60m |
| Water Resistance Level: | IP66 |

# CAMERAS

The AVE range of cameras are suitable for many applications; from identification to general surveillance; and deliver crisp clear images. Dome cameras deliver overt and tamper resistant monitoring whilst our covert cameras deliver clear images from hidden cameras that have been incorporated into unobtrusive objects by qualified engineers.

## VARIFOCAL HIGH RESOLUTION COLOUR DOME CAMERA
MV-CC412D / MV-CC312D

MV-CC412D / MV-CC312D

### SPECIFICATIONS

| | |
|---|---|
| Image Sensor: | 1/3" Super HAD CCD |
| Resolution (MV-CC412D): | 520TVL |
| Resolution (MV-CC312D): | 480TVL |
| Minimum Illumination: | 0.5Lux @F1.2, 1.0Lux @F2.0 |
| Auto Gain Control: | Automatic (0~26dB) |
| Auto Iris Control: | Video / DC (Switchable) |
| Auto White Balance: | Automatic |
| Lens Mount: | f4-8mm Auto Iris Varifocal Lens |
| Power Supply: | 12Vdc |
| Current Consumption: | 140mA or Less |

## HIGH RESOLUTION COLOUR DOME CAMERA
MV-VFCD11 / MV-VFCD12

MV-VFCD11 / MV-VFCD12

### SPECIFICATIONS

| | |
|---|---|
| Image Sensor: | 1/3" Sony Super HAD CCD |
| Resolution: | 550TVL |
| Minimum Illumination: | 0.25Lux @F1.2 |
| Backlight Compensation: | ON / OFF (Switchable) |
| Flicker Less & Auto Gain Control: | ON / OFF (Switchable) |
| Auto White Balance: | AWB |
| Lens Mount (MV-VFCD11): | f3.8-9.5mm@f1.2 Aspherical Auto Iris |
| Lens Mount (MV-VFCD12): | f2.5-6mm@f1.3 Aspherical Auto Iris |
| Power Supply: | 12Vdc |
| Power Consumption: | 2.0 W |

## FIXED COLOUR MINI›DOME CAMERA
MV-FCD22

MV-FCD22

### SPECIFICATIONS

| | |
|---|---|
| Image Sensor: | 1/4" Colour CCD |
| Resolution: | 330TVL |
| Minimum Illumination: | 0.8Lux @ F2.0 |
| Backlight Compensation: | Automatic |
| Auto Gain Control: | Automatic |
| Auto White Balance: | 3200K ~ 9200K |
| Video Output: | 1Vp-p Composite / 75*W* |
| Lens: | f3.6mm @F2.0 (standard), |
| Power Supply: | 12Vdc |
| Power Consumption: | 1.5W |



To place an order call 0845 600 9323 or e›mail sales@ave›uk.

# DOME & STATIC CAMERAS

## SPECIFICATIONS

- True Day / Night Camera with Infra Red Illumination
- Colour Monochrome Switching - Mechanical Filter
- High resolution clear colour and monochrome

| | |
|---|---|
| Image Sensor: | 1/3" Sony Ex-View |
| Resolution: | 480 TVL Colour / 520 TVL Mono |
| Minimum Illumination: | 0.01Lux @F1.2 |
| Number of Total Pixels: | 768(H) x 494(V) |
| Synchronising System: | Internal |
| Elec. Shut. Speed Modes: | 1/60~1/100000 sec |
| Signal-Noise ratio: | 45dB |
| Video Output: | 1Vp-p (Composite & Y/C) |
| Lens Mount: | C/CS Mount Lens |
| Power Supply: | 12Vdc Regulated |
| Operating Temperature: | 10°C~+50°C |
| Dimensions: | 55(W) x 47(H) x 105(L) mm |

### HIGH RESOLUTION DAY/NIGHT CAMERA
MV-CCDN207A

MV-CCDN207A

## SPECIFICATIONS

| | |
|---|---|
| Image Sensor: | 1/3" Colour CCD |
| Resolution: | 480TVL |
| Minimum Illumination: | 0.15Lux @F1.2 |
| Number of Total Pixels: | 795x597(CC-412AB), 811x508 (CC-412M) |
| Signal-Noise ratio: | More Than 50dB (AGC OFF) |
| Lens Mount: | C/CS (With Adaptor) |
| Power Supply: | 12Vdc,12Vdc/24Vac, 90~260Vac |

### HIGH RESOLUTION COLOUR CAMERA
MV-CC412AB + MV-CC412M

Lens not included

MV-CC412AB (12VDC/24VAC)
MV-CC412M (230VAC)

MV-CC312AB (12VDC/24VAC)
MV-CC312M (230VAC)

### STANDARD RESOLUTION COLOUR CAMERA
MV-CC312AB + MV-CC312M

Specifications as above except for the following:

| | |
|---|---|
| Image Sensor: | 1/3" Colour CCD |
| Resolution: | 420TVL |
| Number of Total Pixels: | 537x597(CC-312AB), 537x505 (CC-312M) |

## SPECIFICATIONS

- Optical Zoom Lens - 26X Optical, 10X Digital
- Cannon Lens - Remote control available
- Colour Monochrome Switching

| | |
|---|---|
| Image Sensor: | 1/4" SUPER HAD CCD |
| Resolution: | 480TVL |
| Minimum Illumination: | 1Lux (day), 0Lux IR LED on (night) |
| Number of Total Pixels: | 795(H) x 596(V) |
| Lens Mount: | 3.5 -91mm lens |
| Power Supply: | 12Vdc |
| Power Consumption: | 4.2W Max / 350mA |
| Dimensions: | 0.5(W) x 61(H) x 92(L) |

The Zoom camera can be controlled by a key pad on its rear or by use of remote controllers which are hard wired. Cable length options; 1m or 35m

### OUTDOOR DAY/NIGHT HIGH RESOLUTION ZOOM CAMERA
MV-CCDNZCA

MV-CCDNZCA
RC-ZOOM-1M
RC-ZOOM-35M

# CAMERAS

The AVE range of cameras are suitable for many applications; from identification to general surveillance; and deliver crisp clear images. Dome cameras deliver overt and tamper resistant monitoring whilst our covert cameras deliver clear images from hidden cameras that have been incorporated into unobtrusive objects by qualified engineers.

## HIGH RESOLUTION CAMERA WITH INTEGRATED LENS
MV-CC412VF

MV-CC412VF

| | |
|---|---|
| Image Sensor: | 1/3" Colour CCD |
| Resolution: | 480TVL |
| Minimum Illumination: | 0.5Lux @F1.6 |
| Number of Total Pixels: | 795(H) x 596(V) |
| Lens: | 4-8mm |
| Synchronising System: | Internal |
| Elec. Shut. Speed Modes: | AES ON: 1/50 (60)Sec. ~ 1/100000s AES OFF: 1/50 (60)Sec |
| Backlight Compensation: | ON / OFF (Switchable) |
| Signal-Noise ratio: | More Than 50dB (AGC OFF) |
| Flicker Less & Auto Gain Control: | ON / OFF (Switchable) |
| Auto Iris Control: | Video / DC (Switchable) |
| Auto White Balance: | AWB / PWB |
| Video Output: | 1Vp-p Composite / 75W |
| Power Supply: | 12Vdc,12Vdc/24Vac, |
| Power Consumption: | 2.5W |
| Dimensions: | 55(W) x 47(H) x 140(L) mm |
| Weight: | 12Vdc/24Vac: 300g: 90~260Vac: 350g |

## CAMERA HOUSING
HSG-230

## SPECIFICATIONS

- Internal / External Installations
- Wall Mount Bracket included
- Semi Cable Management System with Bracket
- Pressure die-cast Aluminium Alloy Housing
- Suitable for use with Medium bodied cameras with medium lens
- Weather Resistant to IP66
- Internal Length 230mm
- Dimensions: (LxWxH) 230x90x70
- Voltage Options: 12Vdc/24Vac/230Vac

## CAMERA HOUSING
HSG-300

## SPECIFICATIONS

- Internal / External Installations
- Rear Hinge Opening
- Top Opening
- Wall Mount Bracket included
- Cable Management System with Bracket
- Pressure die-cast Aluminium Alloy Housing
- Suitable for use with large bodied cameras with large lens
- Weather Resistant to IP67
- Internal Length 300mm
- Dimensions: (LxWxH)300x105x80
- Voltage Options: 12Vdc/24Vac/230Vac


T: 0845 600 9323 | F: 0845 600 9363 | E: sales@ave-uk.com

ACCESSORIES

## OBO BOX CAMERA

### SPECIFICATIONS
CCVOBO

- Image Sensor: 1/3" Sony Super HAD CCD
- Resolution: >380TVL
- Minimum Illumination: 0.5Lux @F2.0
- Built in lens: 4.3mm
- Synchronising System: Internal
- Elec. Shut. Speed Modes: 1/50~1/100000 sec Auto
- Signal-Noise ratio: More than 45dB AGC off
- Power Supply: 12Vdc
- Current Consumption: 120mA or less
- Operating Temperature: -10°C~+50°C
- Scanning System: 2:1 Interlace
- Effective Pixels: 500(H) x 582(V)

CCVOBO

## SMOKE DETECTOR ALARM CAMERA

### SPECIFICATIONS
CCVSD

- Image Sensor: 1/3" Sony Super HAD CCD
- Resolution: >380TVL
- Minimum Illumination: 0.5Lux @F2.0
- Built in lens: 4.3mm
- Synchronising System: Internal
- Elec. Shut. Speed Modes: 1/50~1/100000 sec Auto
- Signal-Noise ratio: More than 45dB AGC off
- Power Supply: 12Vdc
- Current Consumption: 120mA or less
- Operating Temperature: -10°C~+50°C
- Scanning System: 2:1 Interlace
- Effective Pixels 500(H) x 582(V)

CCVSD

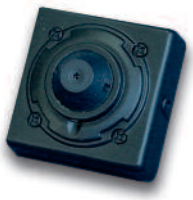
## WORKING PIR CAMERA

### SPECIFICATIONS
CCVPIR

- Image Sensor: 1/3" CCD
- Resolution: >380TVL
- Minimum Illumination: 0.5Lux @F2.0
- Built in lens: 3.7mm
- Synchronising System: Internal
- Elec. Shut. Speed Modes: 1/50~1/100000 sec Auto
- Signal-Noise ratio: More than 45dB AGC off
- Power Supply: 12Vdc
- Current Consumption: 170mA
- Load impedance: 75W
- Lens Angle: 90°
- PIR Detection Range: 100° with 10m (at 25°C)
- Lamp Control Loading: 12500W (max)
- PIR Alarm output: N.C/N.o, max loading 30Vdc, 0.5A

CCVPIR

## COVERT CAMERA



### SPECIFICATIONS
CCV62CPH

- Image Sensor: 1/3" Sony Super HAD CCD
- Resolution: >380TVL
- Minimum Illumination: 0.5Lux @F2.0
- Power Supply: 12Vdc
- Current Consumption: 120mA or less
- Effective Pixels 500(H) x 582(V)
- Dimension: 25 x 25 x 28.5
- Weight: 48g incl. bracket

MV-CCV62CPH

## COVERT CAMERA

MV-8031

- Image Sensor: 1/3" Sony CCD
- Resolution: 420TVL
- Minimum Illumination: 0.8Lux @F1.2
- Pinhole lens: 3.7mm
- Power Supply: 12Vdc
- Effective Pixels 500(H) x 582(V)

MV-8031

## POLE MOUNT ADAPTER

For HSG300 & HSG230 Housings

## CAMERA BRACKET

Two sizes & colours available

## LENSES

AVE CAN SUPPLY TAMRON LENSES. TAMRON HAVE A FULL RANGE OF LENSES INCLUDING IR VARIFOCAL LENS FOR DAY & NIGHT CAMERAS. PLEASE CALL FOR A FULL LISTING.

# CAMERAS

The AVE range of cameras are suitable for many applications; from identification to general surveillance; and deliver crisp clear images. Dome cameras deliver overt and tamper resistant monitoring whilst our covert cameras deliver clear images from hidden cameras that have been incorporated into unobtrusive objects by qualified engineers.

## MV-FF23 / MV-FF30 / MV-FF35

FULL FUNCTION HIGH SPEED DOME WITH
23 X OPTICAL ZOOM
30 X OPTICAL ZOOM
35 X OPTICAL ZOOM

MV-FF23 ..... 23 X OPTICAL ZOOM
MV-FF30 ..... 30 X OPTICAL ZOOM
MV-FF35 ..... 35 X OPTICAL ZOOM

## SPECIFICATIONS

| | |
|---|---|
| Image Sensor: | 1/4" CCD |
| Optical Zoom: | 23x (MV-FF23), 30x (MV-FF30) , 35x (MV-FF35) |
| Digital Zoom: | 1x - 10x variable |
| Effective Pixels: | 440k |
| Horizontal Resolution Colour: | 520TVL(MV-FF23 / 30), 540TVL(MV-FF35) |
| Horizontal Resolution B&W: | 570TVL |
| Video Output: | 1.0Vp-p / 75 ohms, BNC |
| S/N Ratio: | >50dB (AGC Off) |
| Minimum Illumination: | 0.1Lux (B&W), Colour: 0.6Lux (MV-FF23 & MV-FF30) 0.5Lux (MV-FF35) |
| Focal Length: | 3.3-99mm (MV-FF23 & MV-FF30) 3.4-119mm (MV-FF35) |
| Built-in Protocol: | Pelco, D&P, Philips, Kalatel, VCL, ad-442, JVC, and many more |
| Pan: | 360° Continuous |
| Tilt: | -10 to 190° |
| Alarm Input: | 8 |
| Alarm output: | 1 |
| Controller Interface: | RS-485 |
| Dimensions: | 172mm (D) x 302.5mm (H) |
| Weight: | 6Kg |
| Power Source: | 24Vac |
| Power Consumption: | 52W |

## MV-FF600

VANDAL RESISTANT, MONOCHROME, MINI SPEED DOME CAMERA

## SPECIFICATIONS

| | |
|---|---|
| Image Sensor: | 1/4" Exview CCD |
| Optical Zoom: | 12 X |
| Digital Zoom: | 1x - 10x variable |
| Effective Pixels: | 440k |
| Horizontal Resolution B&W: | 470TVL |
| Video Output: | 1.0Vp-p / 75 ohms, BNC |
| S/N Ratio: | >50dB (AGC Off) |
| Minimum Illumination: | 1LUX |
| Focal Length: | 4-48mm |
| Built-in Protocol: | Pelco, D&P, Philips, Kalatel, VCL, AD-442, JVC, and many more |
| Pan: | 720° |
| Tilt: | -10 to 100° |
| Alarm Input: | 8 |
| Alarm output: | 1 |
| Controller Interface: | RS-485 |
| Dimensions: | 172mm (D) x 260mm (H) |
| Weight: | 6Kg |
| Power Source: | 24Vac |
| Power Consumption: | 52W |


T: 0845 600 9323 | F: 0845 600 9363 | E: sales@ave-uk.com

# PTZ / FULL FUNCTION CAMERAS

## SPECIFICATIONS

| | |
|---|---|
| Operating Voltager: | 12Vdc; AC 12-24V |
| Input: | BNC (video in), RS485 (RJ11), Terminal Block |
| Output: | BNC (video out), RS485 (RJ11), Terminal Block |
| Maximum Device ID: | 255 Set |
| Baud Rate: | 2400, 4800, 9600, 19200, 38400bps |
| Protocol Type | UART / Coaxitron / PelcoD |
| | DSCP, general type (1 byte-8 bytes) |
| UART Parity Check: | None, odd, even |
| Maximum Distance: | 900m (DC Resistance: 2.8*W*/100km; AC impedence: 75*W)* |
| Dimension: | 100 x 90 x 28mm |
| Unit weight: | 280g |
| Operation temperature: | 0-40°C (32F- 104°F) |

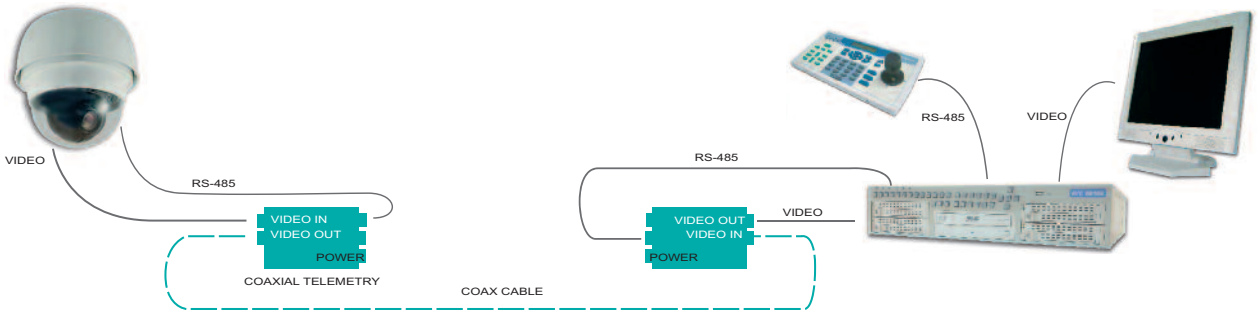
## MV-CT

COAX TELEMETRY

### COAXIAL TELEMETRY QUICK INSTALLATION GUIDE.

Caoxial Telemetry simplifies the wiring process by transmitting video signals and RS-485 communications via one BNC line. This reduces the cost of wiring and also saves time. The unit provides RS-485 / RS-485(RJ11) ports to connect the unit to other devices

## MV-CT PRODUCT APPLICATION DIAGRAM




MINI PENDANT MOUNT

WALL MOUNT

GOOSENECK BRACKET

RECESS CEILING MOUNT

# MONITORS

As one of the worlds' leading suppliers of CCTV systems we understand our customers security needs and have selected our monitors to meet these needs. We have a range of CRT monitors of both standard and high resolution, and also offer flat screen monitors for instances where space limitations or aesthetics are a major factor.

## FLAT SCREEN MONITORS

- Composite / S-Video Input
- High Resolution 1280 x 1024
- With Audio Input
- On Screen Display Detachable Stand for wall mount

AVE-15CMLCD / AVE-17CMLCD

### SPECIFICATIONS

| | |
|---|---|
| Horizontal Resolution (TVL): | XGA1024 x 768 (15") |
| | SXGA1080 x 1024 (17") |
| Pixel Pitch: | 0.297mm (15") 0.264 x 0.264 (17") |
| Dimensions (mm): | 375 x 188 x 353(14") |
| | 430 x 440 x 250 (17") |
| Display Area: | 304 x 228 |
| Weight (Kgs): | 4kg (15"), 5kg (17") |
| Display Mode: | VGA, SVGA, XGA, SXGA |
| Input: | AV, S-Video, Audio L&R & PC Inputs |
| Scanning Frequency: | 31.5KHz -60 KHz(H) 56Hz - 75Hz (V) |
| OSD: | Yes |
| Display Colours: | 16.8 million |
| Power: | 100Vac-230Vac |

## COLOUR MONITORS

- Stylish Design
- High Resolution1024 x 768
- High Contrast
- Composite / S-Video input
- Audio Input,
- On- Screen Display Function controls
- Remote Control

AVE-15CM / AVE-20CM

### SPECIFICATIONS

| | |
|---|---|
| Horizontal Resolution (TVL): | 800 (15") 850 (20") |
| Dot Pitch: | 0.28 (15") 0.39 (20") |
| Power Usage: | 90W (15") 110W (20") |
| Dimensions (mm): | 355x340x395 (15") 478x440x436 (20") |
| Weight (Kgs): | 16-17kg (15") 23-24.5kg (20") |
| Bandwidth: | 100Hz~ 6.5MHz (-3dB) |
| Video Input Connector: | Composite - BNC / Y/C - 4pin DIN |
| Operation Temperature: | 10°C ~ 50°C |
| Audio Output / Input: | 1.5W @10% THD / 50-150m Vp-p @1KW |
| Composite Video Input Signal | 0.5~1.0Vp-p Negative Sync (75W) Y/C |
| | signal - Y1.0Vp-p Negative Sync/C: |
| | 0.285Vp-p (75W) |
| Video Gain | 30dB |
| Power: | 230Vac |



T: 0845 600 9323 | F: 0845 600 9363 | E: sales@ave-uk.com

## FLAT SCREEN MONITORS

- Stylish Design
- High Resolution 1024 x 768,
- High Contrast
- Composite / S-Video input
- Audio Input, On- Screen Display Function controls
- Remote Control

FEATURES:

- Automatic or manual detection of separate synchronise and composite synchronise of VGA signal
- Multiple inputs - Composite Video, Y/C and D Sub Computer.
- High Quality Vertical and Horizontal Scaling with 2D De-Interlacing for Display
- Video input support NTSC standard
- Built-in high Precision Y/C input signal
- Video out support auto termination (75*W*)
- Audio live-out Function with Stereo Phone Jack Output
- Built -in 2W + 2W Speaker
- Support IR Remote Controller
- VESA Standard Bracket
- Wall Mountable Capability

### 15" LCD MONITOR
AVE-15CMLCDV2

- VGA (640 X 480, SVGA (800 X 600), XGA (1024 X 768)
- Vertical refresh rate of up to 75Hz fpr VGA, SVGA, XGA
- LCD 151-1 Brightness of 250cd/m²
- LCD 151AV-1D/-3D with 3D comb filter
- High Contrast 400:1
- Wide viewing of 135° angle and 160° horizontal
- Fast LCD response time of 12ms

AVE-15CMLCD

### 17" LCD MONITOR
AVE-17CMLCDV2

- VGA (640 x 480, SVGA (800 x 600), XGA (1024 x 768), SXGA (1280x1024)
- Support vertical refresh rate of up to 75Hz fpr VGA, SVGA, XGA (SXGA 60Hz)
- High Brightness of 300cd/m²
- 3D comb filter
- High Contrast 500:1
- Wide viewing of 140° angle and 140° horizontal
- Fast LCD response time of 8ms

AVE-17CMLCD.

### 19" LCD MONITOR
AVE-19CMLCDV2

- VGA (640 x 480, SVGA (800 x 600), XGA (1024 x 768), SXGA (1280x1024)
- Support vertical refresh rate of up to 75Hz fpr VGA, SVGA, XGA (SXGA 60Hz)
- High Brightness of 300cd/m²
- LCD 191-1 Brightness of 300cd/m²
- LCD 191AV-1D/-3D with 3D comb filter
- High Contrast 700:1
- Wide viewing of 160° angle and 160° horizontal

AVE-19CMLCD.

# TWISTED PAIR

The AVE UTP (Unshielded Twisted Pair) transmitter bring the ease of using structured CAT3/4/5/6 cable for the transmission of video signals allowing you to take advantage of existing cabling aready installed in a building, or run UTP cable instead of the more expensive coax cable. The unique design allows for single handed installation and connection directly to the rear of a camera.

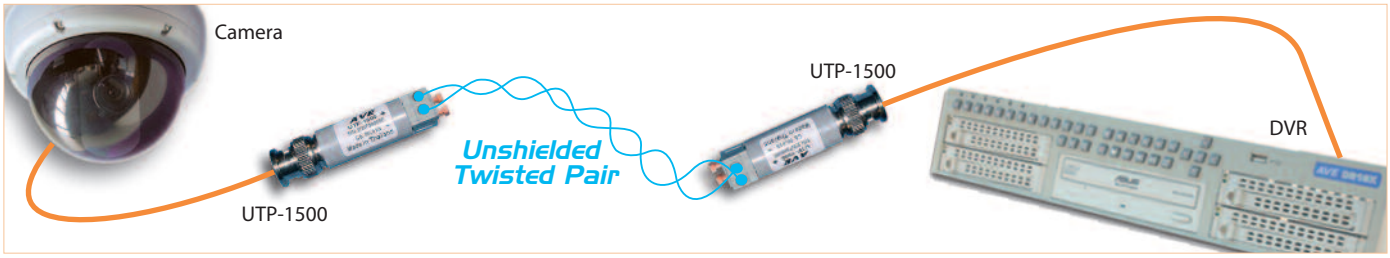
## PASSIVE UTP TRANSMITTER
### AVE-UTP-1500

AVE-UTP-1500

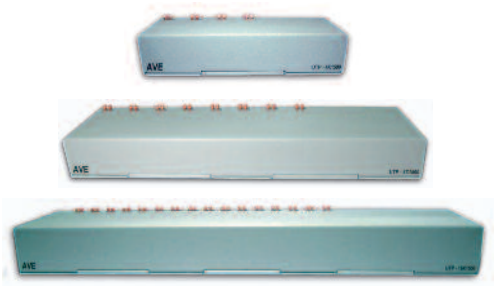
<u>The AVE-UTP-1500 Passive Transmitter / Reciever:</u>

A passive device which allows for the transmission of video, audio and Pan / Tilt & Zoom or other modulated embedded bi-directional control signals over Unshielded Twisted Pair (UTP). This simple device needs no tools to install, just push and hold the locking buttons, insert the wire and release.

- Allows a signal to travel up to 2,500 ft or 800m in B&W, or 1,500ft in colour using Unshielded Twisted Pair Cable UTP (CAT5 for example).
- The signal can be Video images or PTZ control commands
- Take advantage of existing cabling that may be installed in a building, or run UTP cable instead of the more expensive and harder to manipulate coaxial cable.
- Easy to install




## PASSIVE UTP HUBS
### AVE-UTP-4X1500 / 8X1500 / 16X1500



AVE-UTP-4X1500. (4 Channel)
AVE-UTP-8X1500. (8 Channel)
AVE-UTP-16X1500 (16 Channel)

<u>The AVE-UTP Passive Hubs</u>

The AVE UTP Passive Hubs are available in 4, 8, or 16 channel. They allow the transmission of video, audio and Pan, Tilt and Zoom commands to be carried out over UTP cable, all in a neat wall mountable metal box.

- Used in multiple camera installations to simplify and neaten cable runs.
- Built-in push cage clamps for individual UTP connections or a common RJ45 or CAT5 jack which can accomadate 4 video cameras in one cable.
- Rack Mountable

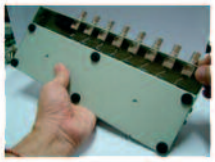
T: 0845 600 9323 | F: 0845 600 9363 | E: sales@ave-uk.com

## TWISTED PAIR TECHNOLOGY
### MOUNTING OPTIONS - WALL MOUNTED

The unit can be unscrewed and easily opens up to access holes for secure wall mounting.

Once fixed to the wall the uniquedesign enables the unitto slide onto the secured back plate and can be screwed into position.

The unit can be mounted in any orientation that suits the application.

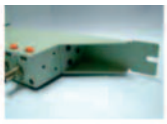


## TWISTED PAIR TECHNOLOGY
### MOUNTING OPTIONS - WALL MOUNTED

AVE-UTP-X1500 PASSIVE HUBS
Rack Mount adapters allow the units to be mounted in two ways as shown below:

8 Channel passive Hub with Rack Mounting 'Ears'

16 Channel passive Hub with Rack Mounting 'Ears'



FRONT RACK MOUNT
allows rear facing connections

REAR RACK MOUNT
allows front facing connections

## ACTIVE TRANSMITTER / RECEIVER HUBS (VECCA)
### UTP-3000

The AVE Active Transmitter / Receiver can be used with Passive or Active transmitters to enable the incoming signal to be boosted for longer cable runs. These advanced devices compensate for lossy (loss of data through data degradation over large distances) and changing resistance of building wire. The AGC (Automatic gain Control) delivers the proper video level to your DVR or other device all the time.

VECCA

# MOTION DETECTION

An advanced Motion Detection system intelligently designed to detect movement within a specified area being monitored and initiate recording. Ideal for loading bays and warehouses where recording is required as and when deliveries are made, for instance. The AVE Digispec is not bound to straight line detection (like most other technologies e.g. IR Beam Barriers used in PIR and Microwave Motion Detectors).

## VMD-1001

### SINGLE CHANNEL VIDEO MOTION DETECTOR

- 1 Channel Video Motion Detector
- Reliable and cost effective
- Widely used to secure indoor areas
- Compact size
- Low Voltage requirements
- Simple on-screen programming menus
- Excellent for covert applications
- 99 levels of sensitivity
- Duration settings from 0-99 seconds
- Tracking time: adjustable 0-8 second in 0.1 second increments

## VMD-1004

### 4 CAMERA VIDEO SWITCHER WITH MOTION DETECTION

- 4 camera video switcher that has VMD (Video Motion Detection) on each camera
- OSD (on-screen) programming for switching dwell time, bypassing and motion dwell time along with the VMD setups is done via the 4 front panel push buttons.
- 99 levels of sensitivity
- Independent motion dwell times for all 4 cameras 1-30sec
- 4 Red LEDs for signify which camera is currently outputting.

## DS-1PL

### SINGLE CHANNEL VIDEO MOTION DETECTOR

- 1 channel video motion detector
- Foreign and domestic governments and private contractors worldwide depend on the DS-1PL to secure areas with people or vehicles.
- Powerful and sophisticated, it's straight forward design allows for quick installation and set up.
- The DS-1PL can be configured to operate in 1 of 5 different modes: Motion detection, Motionless detection, Direction Detection, PTZ Modes and Museum Mode.

## MOTION DETECTION YOU CAN TRUST

Video Motion Detectors (VMD's) provide instant alarm verification by providing a video picture to security personnel and/or recording device, thus allowing for a quick and appropriate response.

VMD systems can drastically reduce installation costs as there'll be no need to install cabling over vast distances or use some type of wireless link.

A single camera can protect a large area and can be selective in its detection in that area. With the use of "masking" (selecting only a part or parts of the video scene that the VMD will protect, ignoring activity in the unmasked portions), the VMD can discriminate between multiple zones created on one camera view. Depending on the performance (and cost), the system can be extremely sensitive, down to a single pixel of video.

### ADVANTAGES

- Gives high performance outdoor video motion detection for any application where DVRs/Multiplexers leave off as they cannot handle true outdoor video motion detection
- Hazardous areas can be monitored remotely
- Target size, velocity and sensitivity programmable
- Target tracking features
- Direction Sensing
- Change (mask) detection area dimensions (full or partial screen... multi-points)
- Multiple detection zones for one camera with separate alarm outputs for each
- Ability to accommodate for gradual illumination changes such as sunrises and sunsets.
- Vibration detection and alarm suppression
- Ability to discriminate between wind, rain, snow, blowing leaves, small animals or birds
- Ethernet LAN module Adaptor available
- In many cases timed alarm responses and computer communication ports to proprietary systems or large scale matrix switchers.
- Alarm Inputs to AND/OR with other motion detection technology to further reduce false alarms.
- Compatible with PTZ cameras
- DSVMD windows based software to programme, control, status included free.

The range to be detected can be set using simple menu commands to avoid recording irrelevant events.



T: 0845 600 9323 | F: 0845 600 9363 | E: sales@ave-uk.com

## FEATURES OF AVE MOTION DETECTION

- Video Motion Detectors (VMD's) provide instant alarm verification by providing a video picture to security personnel and/or recording device, thus allowing for a quick and appropriate response.
- VMD systems can drastically reduce installation costs as there'll be no need to install cabling over vast distances or use some type of wireless link.
- A single camera can protect a large area and can be selective in its detection in that area. With the use of "masking" (selecting only a part or parts of the video scene that the VMD will protect, ignoring activity in the unmasked portions), the VMD can discriminate between multiple zones created on one camera view. Depending on the performance (and cost), the system can be extremely sensitive, down to a single pixel of video.

## DS-16 19" RACK CHASSIS FOR UP TO 16 DS-1SPL MODULES

- Chassis holds up to 16 DS-1 or DS-1PL Digital VMD modules
- Addressable for multiple-unit control, up to a total of 128 channels
- 262, 144 detection points per channel
- Non-volatile EEPROM back-up memory
- Rack mountable or desktop
- Unit addressable
- Looping inputs for each channel
- Day/ Night modes can be switched via external devices
- RS-232 input control
- Tracking time: adjustable 0-8 second in 0.1 second increments

## OPEN FRAME RACK

- The DS-20-OF Open frame Rack can hold up to 20 PCB's for the following models: DS1-PL, VMD1001, or DTT PCBs. This rack is open in the rear with no back plane.
- All connections to PCBs must be made by the user making appropriate cables
- The computer white rack is a standard 19" 5 1/4" 4U size
- The magnetic latched front door protects the internal programming buttons of the PCBs

## REAL-TIME QUAD

Allows the simultaneous viewing of 4 camera inputs on one screen. Available in monochrome or colour.

## DTT
DATE TIME TITLER

For the highest reliability and quality offered today in Date, Time and title Generator. Selections are set through interactive on-screen programming.

## SWITCHER

- Allows simultaneous viewing of between 4 -16 camera inputs on 1 screen.
- Available in monochrome or colour.

2PSWT (2 Positions Switcher)
4PSWT (4 Positions Switcher)
4PSWT-RS (4 Positions Switcher, RS232)
8PSWT (8 Positions Switcher)
8PSWT-RS (8 Positions Switcher, RS232)

## I-CHECKED
IDENTIFICATION CHECKER

USE THE I-CHECKED UNIT TO RECORD CUSTOMERS I.D'S AT CHECKOUTS WHERE THE SALE OF ALCOHOL, CIGARETTES OR CONTROLLED SUBSTANCES IS NECESSARY.

The I-CHECKED system records a customer's I.D. on your CCTV System, helping to insure that your employees are fulfiling their responsibility in checking a customer's date of birth and lowers your exposure to a potential liability in not determining proper identification.

- Use to record I.D.'s at checkouts where the sale of alcohol, cigarettes or controlled substances is necessary
- Works with most camera systems, recorders: Drivers License, I.D.'s, Etc.
- System Includes: 1/3" colour CCD Imaging Camera (Resolution: 512lines, - 0.05Lux IR Illumination), 12Vdc Power Supply, Adjustable Record Time
- Record time can be adjusted from "instantaneous" through 21 sec's.
- Dimensions: 3"W x 3.5"H x 9"L
- Weight: 2.1lbs. n Power Draw: 500ma Max
- Video Input: 1 VP-P 75Ohm. Terminated
- Video Output: 1VP-P 75Ohm. Terminated

## PIPc PRO PICTURE IN PICTURE

This state-of-the-art picture in picture device automatically inserts one camera picture into another on one screen. Swapping the pictures full screen can be initiated by an alarm input.

- Two selectable inset picture sizes:1/9th and 1/16th positioned anywhere on screenusing front panel buttons.
- Battery bck upNiCad 90 days after charge.
- Border colours: Black, Green, White, Blue, Red, or off.


T: 0845 600 9323 | F: 0845 600 9363 | E: sales@ave-uk.com

# NOTES

AVE
AMERICAN VIDEO EQUIPMENT

# PRIORITY CREDIT ACCOUNT APPLICATION

Company Name: | Trading Name

Registered Address:

Post Code:

Trading Address (if different):

Postcode: | Tel No: | Fax No:

Company Registration No. | VAT Reg. No:

No. of Years Trading: | Annual Turnover: | No of Employees

Directors/Partners | Home Address (If Non Limited Company or Ltd Company Trading Less than 1 year)

1

2.

3.

Name of Person Responsible for Accounts:

Trade References (UK Preferred). Address and Tel No.

1.

2.

3.

Bank: | Sort Code: | Account No:

Address:

Postcode:

Monthly Credit Required £
Payment terms for credit accounts are "within 30 days of date of invoice".

I acknowledge receipt of the General Policies and agree to abide by the Terms and Conditions of:
AVE, Unit 1c, The Potteries, Woodgreen Road, Waltham Abbey, Essex, EN9 3SA.

Signed: | Position: | Date:

* Please also complete and sign the "Authorisation to Supply Bank Reference" below.

To: The Manager

Bank:

Postcode:

Dear Sir/Madam
AUTHORISATION TO SUPPLY BANK REFERENCE

Account Name

Account No.

Please accept this letter as authorisation to supply a bank reference to AVE, Unit 1C, The Potteries, Wood Green Road, Essex EN9 3SA for the purpose of opening a trade credit account with them.

Authorised Signature(s)

Print Name(s) | Date

Terms and conditions available upon request.

# General Policies and Terms and Conditions

Orders for stock items must be received before 3.00 pm GMT if you require same-day shipping. We will endeavour to ship orders received after 3.01pm that day if possible, however all will be shipped the following working day.

AVE stock items include MV-xxxe and MV-xxxS Series Multiplexers, MV-DRXX Series DVR Multiplexers, Cameras, QSXXX series quads, TDCT, SCS, and Switchers. All other orders for Cash Register, ATM, or Computer Interfaces have a minimum 2 day lead time. This includes all VSI's, VSSI-Plus etc.

Please remember when ordering VSI interfaces that you must specify what device the VSI is to be used with. For example:
Qty 1 VSI-PRO - Gilbarco TCR15

The attached order form must be used for ALL VSI orders.

Additionally, you must specify the register type when ordering Triports because there are different types for specific registers. We use TRIPORT as a generic part name, however there are several models. The VSI interfaces to several hundred different devices so several software versions which cover specific programs used. If you have a VSI in stock and a sale pending, please call us with the Register or Device model number and the version of the VSI you have. We can tell you if the VSI will work for that specific device and if additional interfaces, modifications, or cabling are required.

AVE will accept faxed orders, and verbal telephone orders. Do not hesitate to call our Product Support Department if you have any questions regarding products or policies with AVE.

*Effective 1 January 2004*

Freight Policy Prices are F.O.B. (UK, USA, South Africa or Thailand).
Minimum Order £35.00 ($50.00) net order value.
All refused shipments will be subject to a 15% restocking fee and freight charges.

*Return Policy*

American Video Equipment will only except returns on sold merchandise with approval from the AVE Sales Department. The following conditions apply:

- Before sending any merchandise back to AVE you must obtain an RA.
- Returns without prior authorization will be refused.
- RMA numbers are good for 30 days from the date of issue.
- After 30 days the RA is invalid and the merchandise will be billed at full invoice price.
- All returns must be made within 30 days of the original invoice date.
- Absolutely no returns for credit or replacement after 30 days from the original invoice date.
- Equipment must be returned in original packaging in like new condition.
- All returned merchandise is subject to a minimum 15% restocking fee, depending on the condition of the merchandise upon inspection by our RA department.
- If upon arrival at our factory, the returned merchandise is not in its original packaging, a £50.00 ($ 75.00) repacking fee will be charged.

*Damage Claims*

Claims for in transit damage must be filed directly with the carrier and always within 15 days after receipt of the shipment.
ONLY THE CONSIGNEE CAN FILE A CLAIM WITH THE CARRIER FOR DAMAGE DURING SHIPMENT.
Be sure to save all cartons and packaging material for the carrier as evidence of in transit damage. Do not ship merchandise back to the factory without obtaining proper authorization.
IN TRANSIT DAMAGE IS NOT COVERED BY THE AVE WARRANTY.
FREIGHT INSURANCE IS LIMITED.

*Order Deliver Delay*

AVE can not be held responsible for delays in shipment affected by reasons beyond our control. These reasons may include, but are not limited to: Material shortages, freight delays, work strikes, Sabotage, forces of nature, etc.

*Warranty Return Policy*

Before sending any AVE product to the factory for warranty repair, the customer must obtain an RMA number. This number must appear on the outside of the box and on any documentation accompanying the warranty repair. When calling AVE for an RA number, be prepared to give a complete description of the problem, the invoice number and address to return repaired item to.
When the AVE product is shipped to AVE :

1. The unit must be packed in the original shipping carton or in suitable packaging offering a similar degree of protection. Separate items such as power cords, remote controls units, or transformers, should be individually wrapped so as not to cause scratches or other damage during shipment.
2. Please include your name, telephone number, address, a copy of Sales receipt and a complete description of the inoperative functions.
3. Ship the product prepaid. AVE will pay for the return shipping.

American video Equipments Products are guaranteed to be free from defects in workmanship and material during the warranty period. DR, VSI's and Multiplexers are guaranteed for 3 years from date of purchase, and HID and Power Supplies are guaranteed for 1 year.
If any failure, resulting from either workmanship or material defects should occur under normal and proper usage within the period stated below for each product from the original provable date of purchase, such failure should be repaired at no cost to the buyer for labour and parts if the defective product(s) is sent to AVE.

Product Category: All products except VCR's
During the period of 12 (twelve) months from the date of sale to the original end-user, AVE will repair or replace (at our option) all necessary parts, except the outside cabinet trim, without charge for parts labour required to make the repair or replacement.
This AVE warranty does not cover the following:

1. Products received for repair without an RA number, sales or delivery receipt showing date of purchase by original customer.
2. Damages cased by incorrect use, carelessness, unauthorized alterations, improper storage or unauthorized service installation or repairs.
3. Damages caused by fire, flood, lightning, vandalism, collision, acts of God, or other events beyond the control of AVE.
4. External parts such as cabinet and key pad
5. Damages resulting from loss of use, loss of time or inconvenience, costs of temporary replacement units or spares, property damage caused by this unit or its failure to work, or any other incidental or consequential damages.
6. Hostile operating environments.
7. In transit damage claims, improper handling by carrier or post offices.
8. Products or parts thereof which have had serial numbers removed, altered or defaced.
9. Damage defect or failure caused by or resulting from the operation of the unit by incorrect voltages.
10. The use of the components that do not meet AVE specifications.
11. Periodic maintenance and adjustments resulting from normal use such as video head cleaning, mechanical part wear, etc.
12. Damage resulting from use of cleaning cassettes.

IMPORTANT : This warranty is in lieu of all other warranties, guarantees or agreements whether expressed or implied and no person, dealer, or company is authorized to change, modify, or extend its terms in any manner whatsoever.

AVE

AMERICAN VIDEO EQUIPMENT

Endeavour House
Coopers End Road
Stansted, Essex CM24 1SJ
UNITED KINGDOM

**Tel: +44 (0)870 770 9323**
Fax: +44 (0)870 770 9363
E-mail: sales@ave-uk.com
www.ave-uk.com

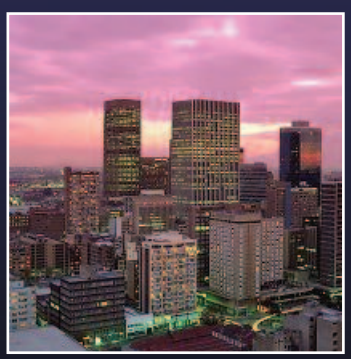
American Video Equipment
Endeavour House
Coopers End Road
Stansted, Essex
CM24 1SJ
UNITED KINGDOM

Tel: 44-(0)845 600 9323
Fax: 44-(0)845 600 9363
E-mail: sales@ave-uk.com

# www.ave-uk.com

UNITED KINGDOM

NORTH AMERICA


SOUTH AFRICA

THAILAND

# AVE

AMERICAN VIDEO EQUIPMENT

ROARING INNOVATION